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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/735,112	12/12/2003	Donald Giles Allen	HSJ9-2003-0144US1	1925
7590 03/27/2006			EXAMINER	
ATTN: John J. Oskorep			KIM, PAUL D	
One Magnificent Mile Center Suite 1400			ART UNIT	PAPER NUMBER
980 N. Michigan Avenue			3729	
Chicago, IL 60611			DATE MAILED: 03/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/735,112	ALLEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Paul D. Kim	3729				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This	2a) ☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-22 are subject to restriction and/or expressions.	vn from consideration.					
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary					
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:						

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-13, drawn to a damascene method for use in forming a magnetic head, classified in class 29, subclass 603.13.
 - II. Claims 14-22, drawn to a method for forming a write coil, classified in class 29, subclass 605.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions Group I and II are related as combination and subcombination.

 Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination (Group II) as claimed does not require the particulars of the subcombination (Group I) as claimed because the combination (Group II) as claimed does not require a process of etching to remove portions of the insulating layer. The subcombination has separate utility such as etching to remove portions of the insulating layer.
- 3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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4. If applicant elects Group I, the Group I contains claims directed to the following patentably distinct species:

Species A, drawn to etching to remove portions of the hard mask layer and the insulator layer in accordance with the pattern comprise plasma etching.

Species B, drawn to etching to remove portions of the hard mask layer and the insulator layer in accordance with the pattern comprise a reactive ion etch (RIE).

Species C, drawn to etching to remove remaining portions of the hard mask layer comprises a reactive ion etch (RIE).

Species D, drawn to etching to remove remaining portions of the hard mask layer comprises a reactive ion etch (RIE) with use of a fluorine gas.

Species E, drawn to etching to remove remaining portions of the hard mask layer comprises a low-bias and isotropic reactive ion etch (RIE).

Species F, drawn to etching to remove portions of the hard mask layer in accordance with the pattern comprises a reactive ion etch (RIE) with use of a fluorine gas and etching to remove remaining portions of the hard mask layer comprises a reactive ion etch (RIE) with use of a fluorine gas.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is a generic claim.

5. If applicant elects Group II, the Group II contains claims directed to the following patentably distinct species:

Species A, drawn to etching to remove portions of the hard mask layer and the hard-baked resist in accordance with the write coil pattern comprise a reactive ion etch (RIE).

Species B, drawn to etching to remove remaining portions of the hard mask layer comprises a reactive ion etch (RIE).

Species C, drawn to etching to remove remaining portions of the hard mask layer comprises a reactive ion etch (RIE) with use of a fluorine gas.

Species D, drawn to etching to remove remaining portions of the hard mask layer comprises a low-bias and isotropic reactive ion etch (RIE).

Species E, drawn to etching to remove portions of the hard mask layer in accordance with the write coil pattern comprises a reactive ion etch (RIE) with use of a fluorine gas and etching to remove remaining portions of the etched hard mask layer comprises a reactive ion etch (RIE) with use of a fluorine gas.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 14 is a generic claim.

6. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims

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readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

7. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

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8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Friday between 6:00 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Examiner
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